



A.D. 1852 . . . N° 1128.

S P E C I F I C A T I O N

OF

EPHRAIM MOSELY.

ARTIFICIAL MASTICATING APPARATUS.

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A.D. 1852 N° 1128.

Artificial Masticating Apparatus.

LETTERS PATENT to Ephraim Mosely, of Grosvenor Street, in the County of Middlesex, Dentist, for the Invention of “**IMPROVEMENTS IN THE MANUFACTURE OF ARTIFICIAL MASTICATING APPARATUS.**”

Sealed the 19th February 1853, and dated the 21st December 1852.

PROVISIONAL SPECIFICATION left by the said Ephraim Mosely at the Office of the Commissioners of Patents, with his Petition, on the 21st December 1852.

I, EPHRAIM MOSELY, do hereby declare the nature of the said
5 Invention for “**IMPROVEMENTS IN THE MANUFACTURE OF ARTIFICIAL MASTICATING APPARATUS**” to be as follows : —

The object of this Invention is to provide the mouth with a masticating apparatus, which, by yielding slightly to the pressure of the jaws, will avoid the unpleasant jar which is felt by the
10 use of the ordinary construction of artificial masticating apparatus.

In carrying out this Invention I affix to that surface of the ordinary gold plate or frame which has heretofore been brought into contact with the mouth, a layer of wire gauze, for the purpose of receiving a coating of india rubber of such thickness as will form
15 a kind of cushion to receive the pressure of the gums, and by

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slightly yielding to that pressure will prevent the unpleasant jar already alluded to. Upon this gold plate I propose in some cases to form a gum, to embrace the neck of the artificial teeth by means of a suitably moulded perforated plate or wire gauze frame, composed of gold, platinum, or other non-oxidizable metal; and I cover this 5 plate or frame with a preparation of india rubber of the color of the natural gum, and thereby I am enabled to obtain an effect closely resembling the setting of the teeth in the natural gum. Instead of using bone or enamel teeth, I propose in some cases to mount blocks of india rubber on the ordinary carrying plate or frames, and in 10 that way obtain the yielding effect desired. And where economy is an object, I apply the coating of india rubber directly to the bone frame, instead of using the intermediate layer of wire gauze as above explained.

SPECIFICATION in pursuance of the conditions of the Letters 15 Patent, filed by the said Ephraim Mosely in the Great Seal Patent Office on the 21st June 1853.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, EPHRAIM MOSELY, of Grosvenor Street, in the County of Middlesex, Dentist, send greeting. 20

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Twenty-first day of December, in the year of our Lord One thousand eight hundred and fifty-two, in the sixteenth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Ephraim Mosely, Her 25 special licence that I, the said Ephraim Mosely, my executors, administrators, and assigns, or such others as I, the said Ephraim Mosely, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully 30 might make, use, exercise, and vend, within the United Kingdom of

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Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "**IMPROVEMENTS IN THE MANUFACTURE OF ARTIFICIAL MASTICATING APPARATUS**," upon the condition (amongst others) that I, the said Ephraim Mosely, by an instrument in writing under my hand
5 and seal, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

10 **NOW KNOW YE**, that I, the said Ephraim Mosely, do hereby declare the nature of my said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement, reference being had to the Drawings hereunto annexed, and to the letters and figures
15 marked thereon (that is to say) :

The object of this Invention is to provide the mouth with an artificial masticating apparatus, which, by yielding slightly to the pressure of the jaws, will avoid the unpleasant jar in the mouth which is experienced by persons using the ordinary construction of arti-
20 ficial masticating apparatus. In carrying out my Invention, I affix to that surface of the ordinary gold plate or frame which has heretofore been brought into contact with the gum a layer of wire gauge, for the purpose of receiving a coating of india rubber, which is to form an elastic cushion, and yield sufficiently to the pressure
25 of the gums to prevent the occurrence of the unpleasant jarring sensation above alluded to. In the accompanying Drawing, Fig. 1, shews in plan view, and Fig. 2, in cross section (taken in the line 1, 2, of Fig. 1), a gold plate, carrying teeth on its under surface, and provided with a yielding substance to receive
30 the pressure of the gum of the upper jaw. α, α , is the ordinary gold plate moulded to suit the mouth of the patient, and carrying artificial teeth b , which are rivetted or soldered thereto in the usual way. To the upper surface of the gold plate a layer of platinum wire gauze c (in part exhibited at Fig. 1), is attached. This wire
35 gauze is used for the purpose of presenting a good holding surface

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to the cement employed in fixing the layer of india rubber *d*, to the plate *a*, which india rubber is intended to cover the whole of the metal surface that would in its absence be brought into contact with the gum. It will be understood that the india rubber is shewn deficient in Fig. 1, for the purpose of exposing part of the metal plate and interposed wire gauze to view. 5

In some cases it may be thought desirable to form on the gold plate an artificial gum, so that the teeth may appear to be imbedded as in nature. When this is required, I affix to the gold plate *a*, a suitably moulded perforated plate or wire gauze frame, composed of platinum or other non-oxidizable metal, and I cover this plate or frame with a preparation of india rubber of the color of the natural gum, effecting the adherence of the india rubber to the metal by means of suitable cement, and thereby an effect may be obtained, closely resembling the setting of the teeth in the natural gum as shewn at Fig. 3; or I use a colored solution of india rubber, and apply it, by means of a camel's hair brush, to the metal gum, laying coat upon coat, until a sufficient thickness is obtained. This solution, as well as the preparation of colored india rubber above mentioned, I produce by dissolving the india rubber in chloroform, and mixing vermillion therewith. 15 20

When economy is an object, I propose, as a modification of the plan above set forth, to apply the coating of india rubber to a bone frame without the intervention of wire gauze. In such case, I adopt the mode of fastening shewn at Figures 4, and 5, in which Fig. 4, is a plan view, and Fig. 5, a cross section of a bone frame thus fitted. In these Figures *e, e*, are small plates of gold set at convenient distances apart, and made to press upon the layer of india rubber *d*, by means of gold pins passing through them and entering the bone frame, and by this means the india rubber cushion or covering is secured in its place. 25 30

Having now set forth the nature of my Invention, and described the manner of carrying the same into effect, I wish it to be understood that under the above in part recited Letters Patent I claim, first, interposing between the gum of the wearer of artificial teeth, 35

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and the plate or frame which carries the teeth, a layer or cushion of india rubber for the purpose above set forth; and, secondly, I claim the mode above described of producing artificial gums having the appearance of the natural gum.

5 In witness whereof, I, the said Ephraim Mosely, have hereunto set my hand and seal, this Eighteenth day of June, in the year of our Lord One thousand eight hundred and fifty-three.

EPHRAIM MOSELY. (L.S.)

10 Witness,

W. NEWTON,

Office for Patents,

66, Chancery Lane.

LONDON:

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Printers to the Queen's most Excellent Majesty. 1854.

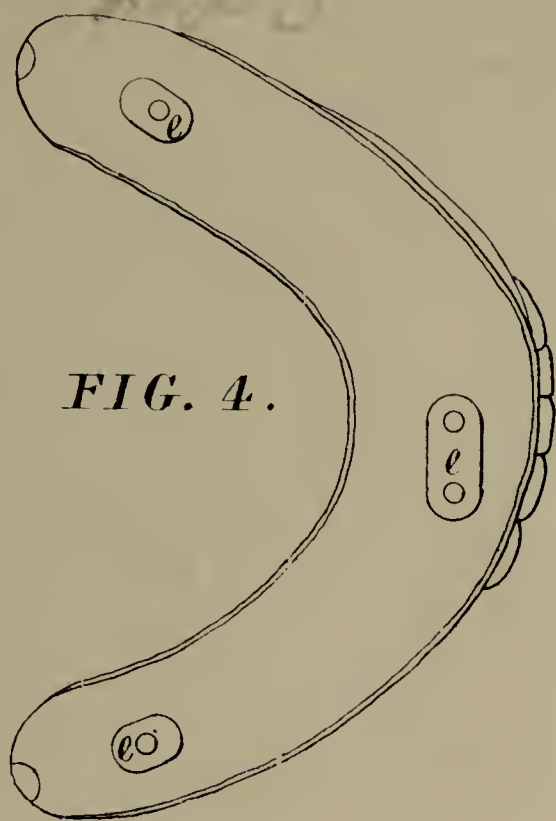


FIG. 4.

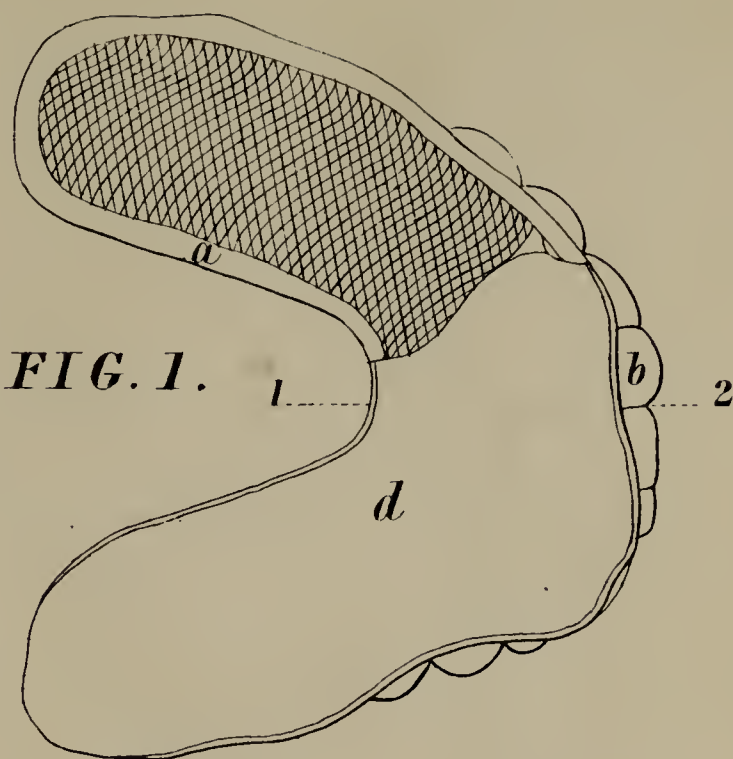


FIG. 1.

FIG. 5.

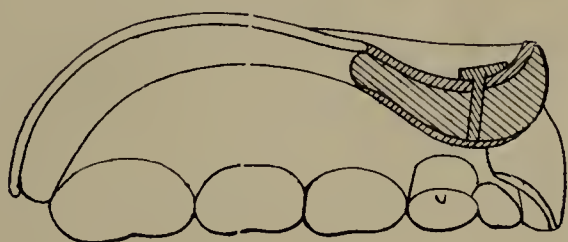


FIG. 2.

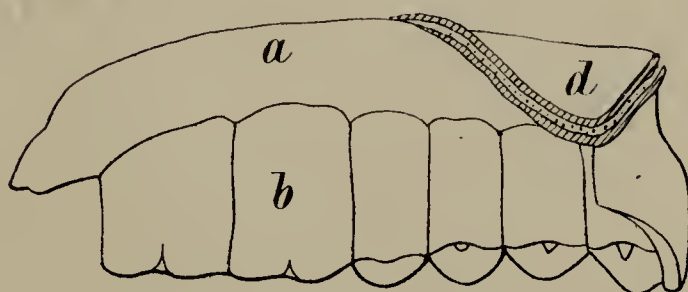
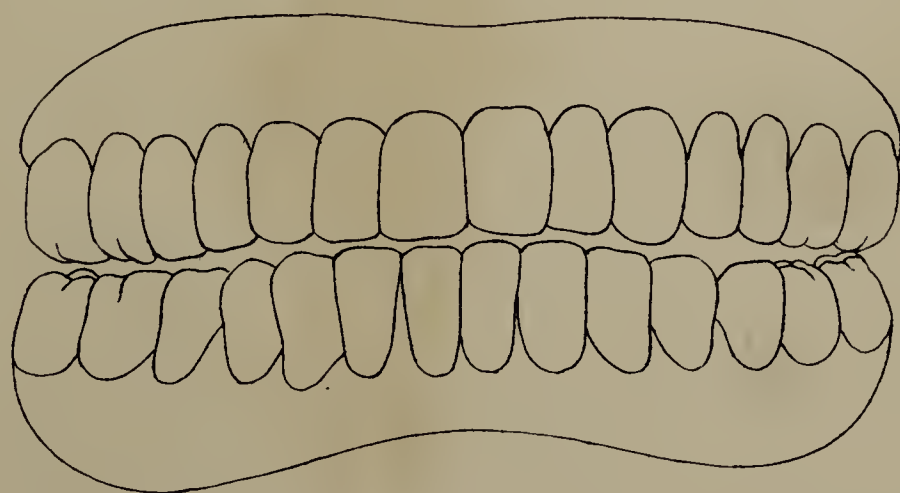


FIG. 3.



The filed drawing is colored

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